Drawings:

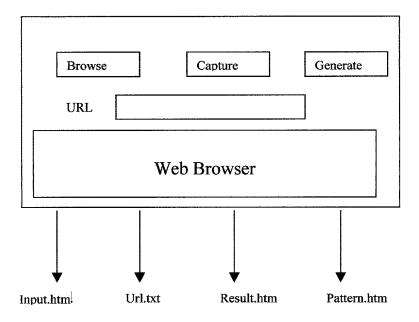


Fig. 1

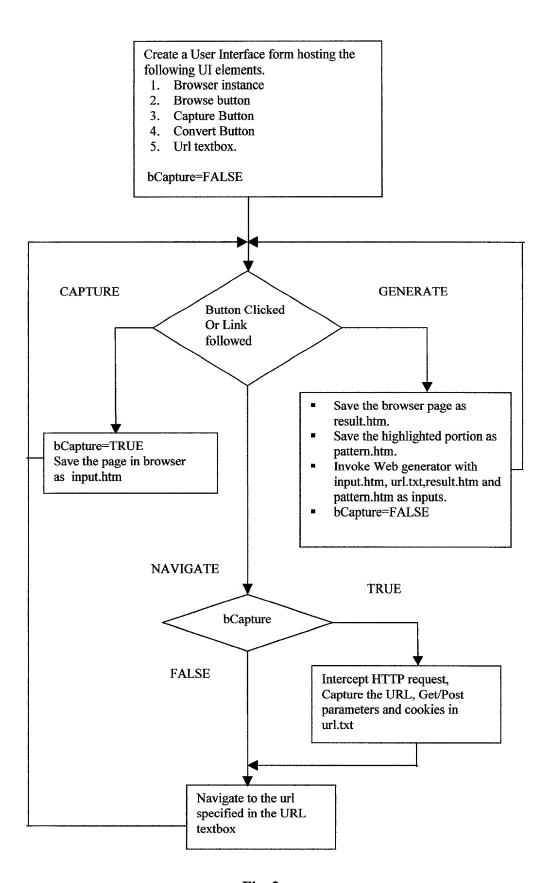


Fig. 2

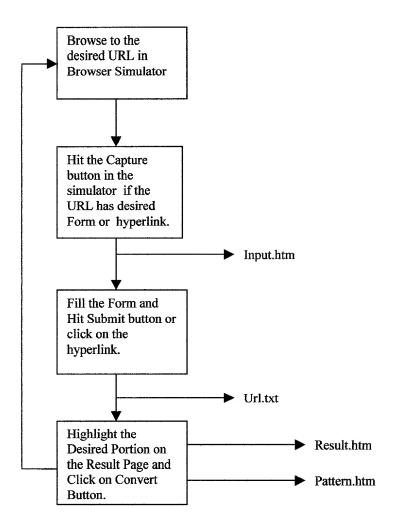


Fig. 3

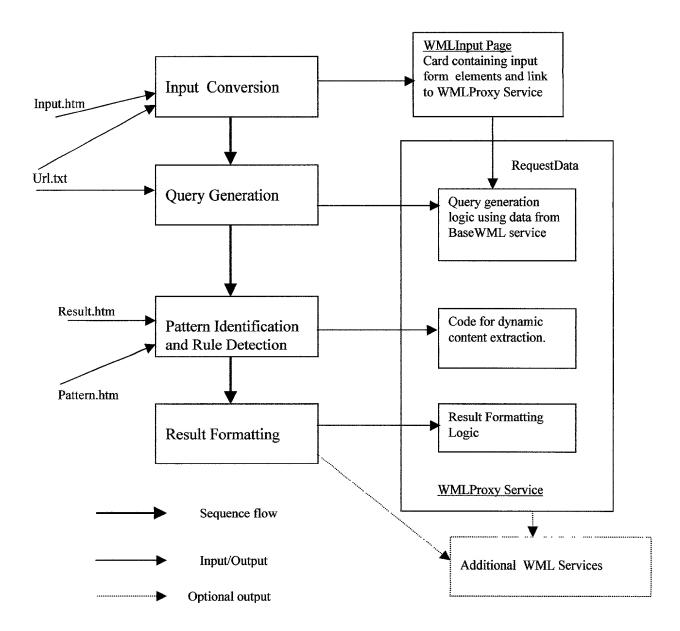


Fig. 4

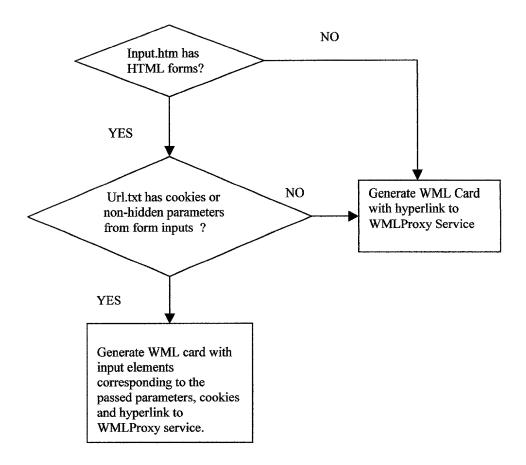


Fig. 5

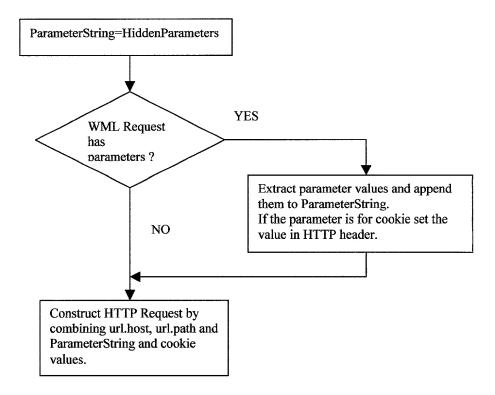


Fig. 6

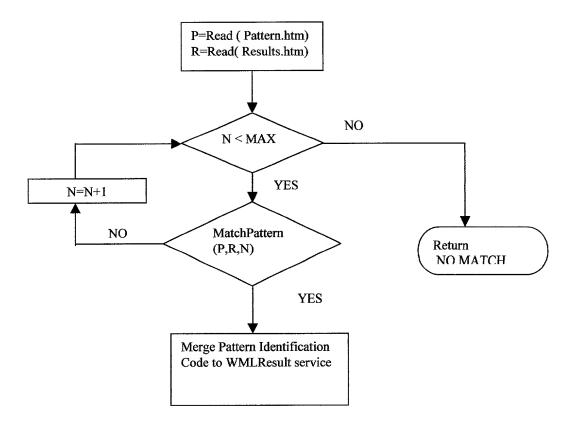


Fig. 7

- Identify the HTML element X directly containing the pattern P in results page R.
- Identify the type T of HTML element X.
- Extract the list L of all elements of type T in R.
- Compute the index I of element X in the list L.

Generate extraction routine $\operatorname{Extract}(R)$ with the following operations.

- 1. Construct a list L of all elements of type T.
- 2. Extract the element X at index I.

In simulator, Navigate to the same URL with different set of parameter values and get the new Result page R.

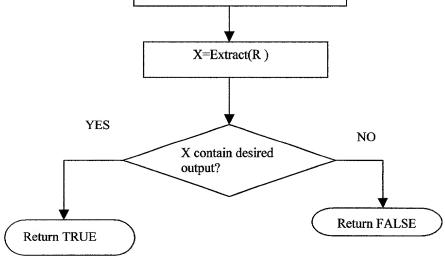


Fig. 8

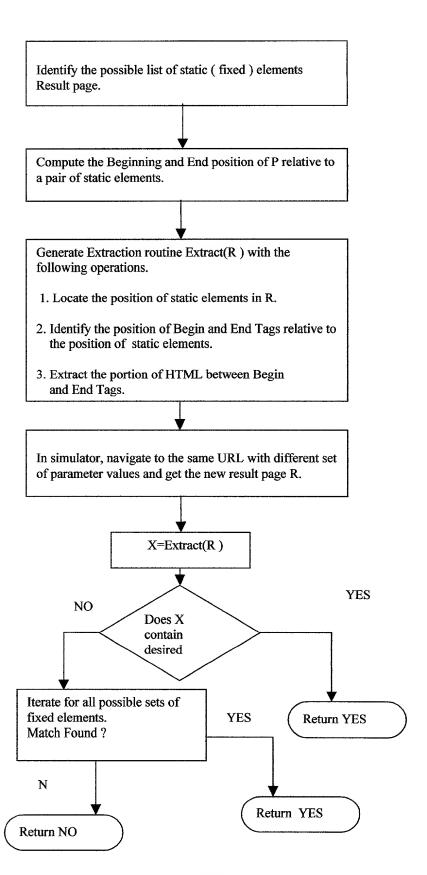


Fig. 9

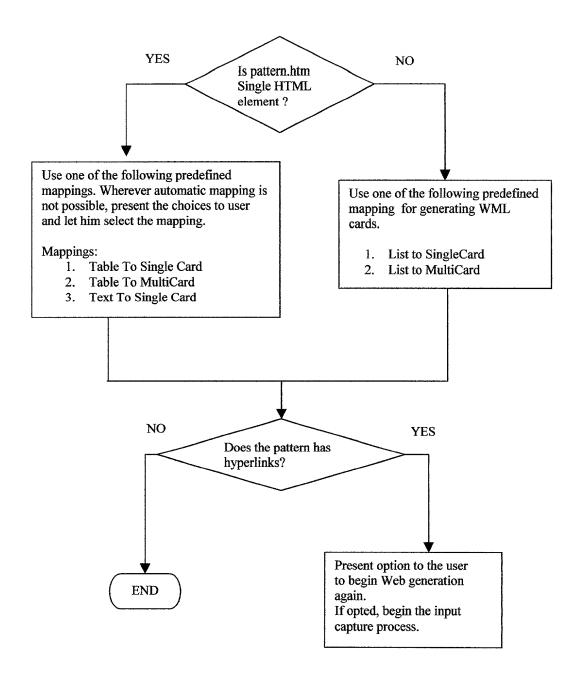


Fig. 10

Host: <hostname>

Path: <relative path in host> Request Type: <GET/POST>

RequestData: <name1>=<value1>?< Name2>=<value2>

....>

Cookies: <cName1>=<cVal1>; <cName2=cVal2> ...

Fig. 11

HTML Element Type	WML Equivalents
<form ,="" action="url" method="get/post" name="name></td><td><pre><card id=" name"="" title="name"> <do type="accept"> < go href="wml-url" method="post"> <postfield ,="" name="label" value="\$vall"> </postfield></do> </form>	
<pre><input name="name" type="text"/></pre>	<pre><input name="name" title="title" type="text" value=""/></pre>
<pre><input type="checkbox" value="1"/></pre>	<pre><input default="Y" name="choice Y/N?"/></pre>
<pre><select name="name"> <option value="val1"> value1 <option value="val2"> value2 <option value="val3"> value3 </option></option></option></select></pre>	<pre><select iname="index_Var" name="name" title="label"></select></pre>

Fig. 12